

## ORIGINATION FORM

Date: **1-27-2010**

Originator: **Ghulam Mujtaba**

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Specification Title: **Timber Structures**

Specification Section, Article, or Subarticle Number: **470-12.2**

Why does the existing language need to be changed? **The purpose of the specification change is to include a timber preservative in the specification called Copper Azole-Type C (CA-C). CA-C is a newer version of the approved preservative product CA-B. The CA-C requirement of 0.15-pcf for retention and it is comparable to the CA-B requirement of 0.21-pcf for retention.**

Summary of the changes: **Specification 955-2.2, 955-4 and 955-5.2 and 955-5.3 are expanded to include the option of timber treatment with Copper Azole-Type C (CA-C). The changes will specify the required retention level for each use. Also, 470-12.2 will be changed to include C (CA-C).**

Are these changes applicable to all Department jobs? **No**, If not, what are the restrictions? **It is applicable only projects which utilize timber treated products.**

Will these changes result in an increase or decrease in project costs? **No** If yes, what is the estimated change in costs?

With who have you discussed these changes? **Mr. Steve Plotkin, Office of Construction and Mr. Rafiq Darji Construction and Materials Engineer FHWA - Florida Division.**

What other offices will be impacted by these changes? **Design**

Are changes needed to the PPM, Design Standards, SDG, CPAM or other manual? **No**

Is a Design Bulletin, Construction Memo, or Estimates Bulletin needed? **Yes, the Construction Memorandum/Materials bulletin is needed**

Contact the State Specifications Office for assistance in completing this form.

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### **M E M O R A N D U M**

**DATE:** February 10, 2011  
**TO:** Specification Review Distribution List  
**FROM:** Rudy Powell, Jr., P.E., State Specifications Engineer  
**SUBJECT:** Proposed Specification: 4701202 Timber Structures.

In accordance with Specification Development Procedures, we are sending you a copy of a proposed specification change.

This change was proposed by Ghulam Mujtaba to include a timber preservative in the specification called Copper Azole-Type C (CA-C). CA-C is a newer version of the approved preservative product CA-B. The CA-C requirement of 0.15-pcf for retention and it is comparable to the CA-B requirement of 0.21-pcf for retention.

Please share this proposal with others within your responsibility. Review comments are due within four weeks and should be sent to Mail Station 75 or to my attention via email at SP965RP or rudy.powell@dot.state.fl.us. Comments received after **March 10, 2011** may not be considered. Your input is encouraged.

RP/cah  
Attachment

**TIMBER STRUCTURES.**  
**(REV 2-2-11)**

SUBARTICLE 470-12.2 (Pages 631 – 632) is deleted and the following substituted:

**470-12.2 CCA, ACQ-D, ~~and CA-B~~, and CA-C, Treated Timber Structures:** Use the fasteners and connectors as described in the following table:

TABLE – HARDWARE REQUIREMENTS FOR TREATED TIMBER		
Environmental condition where structure will be located	Fasteners	Connectors
Permanent wood foundations and/or where salt spray is prevalent	304 or 316 Stainless Steel	304 or 316 Stainless Steel
Structures that will be exposed to standing water or rainwater	304 or 316 Stainless Steel	304 or 316 Stainless Steel
Structures that will be situated indoors and remain dry in service	304 or 316 Stainless Steel  Hot-dipped galvanized fasteners meeting ASTM A-153 requirements	304 or 316 Stainless Steel  Hot-dipped galvanized connectors meeting the requirements of ASTM A-653 Class G185 sheet or better

Do not use aluminum in direct contact with treated wood.